

M 4.4, 17km W of San Clemente Is. (SE tip), CA

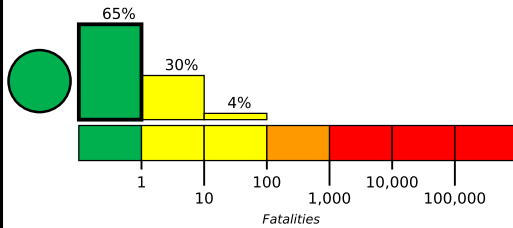
Origin Time: 2019-06-05 14:32:09 UTC (Wed 07:32:09 local)

Location: 32.8140° N 118.5315° W Depth: 7.8 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

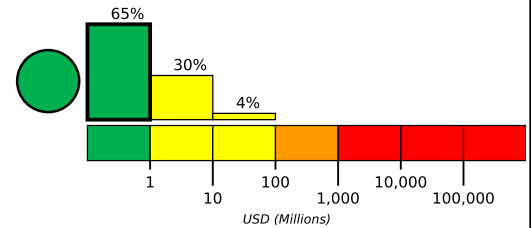
Created: 6 minutes, 25 seconds after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

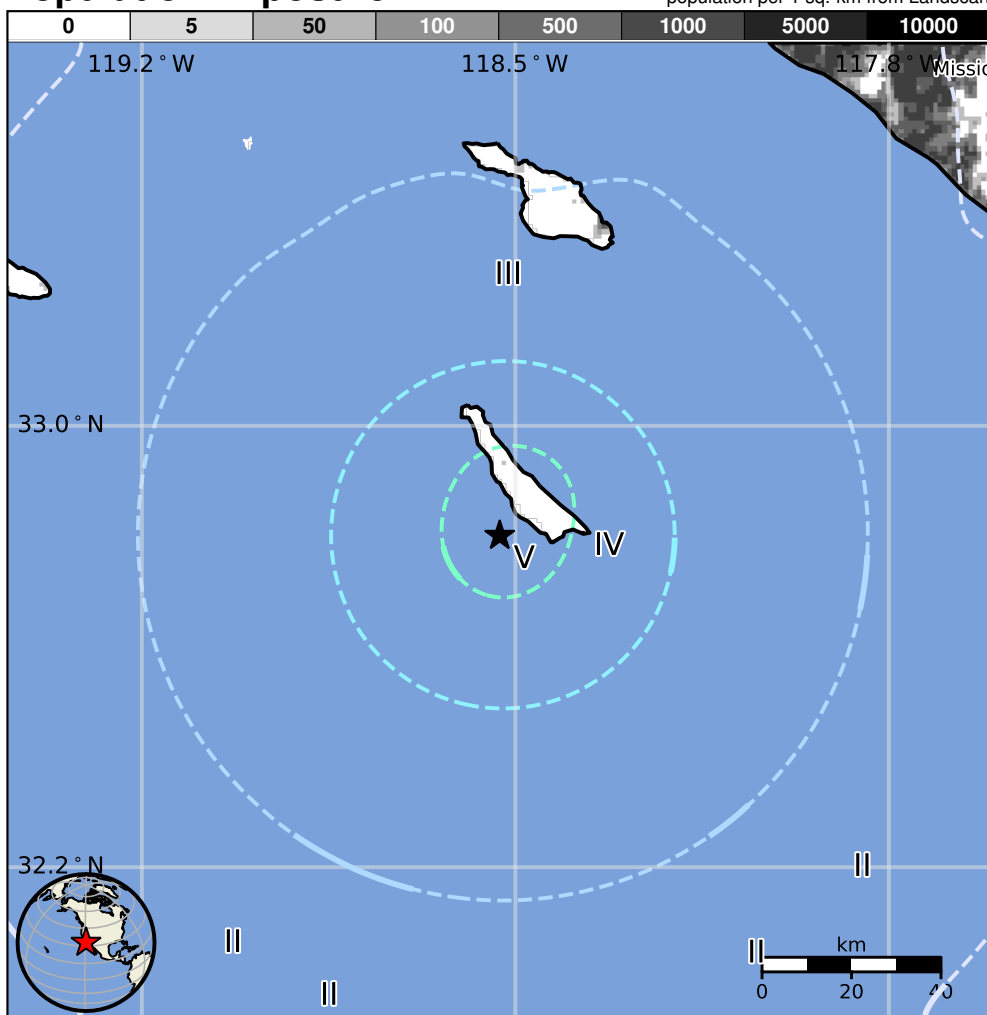


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		296k*	691k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	165	5.6	VI(1,267k)	1
2003-12-22	389	6.6	VI(8k)	2
1971-02-09	176	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Avalon	4k
II	San Joaquin Hills	3k
II	Aliso Viejo	48k
II	Laguna Niguel	63k
II	Laguna Beach	23k
II	Laguna Hills	30k
II	Costa Mesa	110k
II	Mission Viejo	93k
II	Newport Beach	85k
II	Oceanside	167k
II	Carlsbad	105k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<http://earthquake.usgs.gov/data/pager/>

bold cities appear on map.

(k = x1000)

Event ID: ci38624424